

Title (en)
PROCESS AND PLANT FOR THE THERMAL ABATEMENT OF MALODOROUS EMISSIONS FROM A PURIFICATION PLANT WITH ENERGY RECOVERY FROM SAID ABATEMENT

Title (de)
VERFAHREN UND ANLAGE ZUR THERMISCHEN BESEITIGUNG VON ÜBELRIECHENDEN EMISSIONEN AUS EINER KLÄRANLAGE MIT ENERGIERÜCKGEWINNUNG AUS DIESER BESEITIGUNG

Title (fr)
PROCÉDÉ ET INSTALLATION POUR LA RÉDUCTION THERMIQUE D'ÉMISSIONS MALODORANTES PROVENANT D'UNE INSTALLATION DE PURIFICATION AVEC RÉCUPÉRATION D'ÉNERGIE À PARTIR DE LADITE RÉDUCTION

Publication
EP 3535046 B1 20230802 (EN)

Application
EP 17801614 A 20171031

Priority
• IT 201600110226 A 20161102
• EP 2017077909 W 20171031

Abstract (en)
[origin: WO2018083097A1] A process and a plant for the thermal abatement of foul air containing malodorous substances emitted by a purification system with energy recovery from said abatement are described, the process comprising the steps of: - feeding a flow of foul air containing malodorous substances emitted from a purification plant, as combusive air into the combustion chamber of a unit for production and recovery of energy, thus producing a flow of high-temperature exhaust gas; - feeding said flow of exhaust gas into a scrubber for the abatement of polluting substances, said scrubber using water for the washing of the flow of exhaust gas, thus producing a flow of low-temperature purified gas and a heated washing liquid; - conveying the heated washing liquid to at least one heating jacket of a storage tank for the biological treatment of sewage of the aforementioned purification plant; a method for revamping a pre-existing purification plant, so as to make the plant suitable for implementation of the process described above, is also described.

IPC 8 full level
B01D 53/34 (2006.01); **B01D 53/78** (2006.01); **C02F 11/04** (2006.01); **C12M 1/00** (2006.01)

CPC (source: EA EP US)
B01D 53/1425 (2013.01 - EA US); **B01D 53/18** (2013.01 - EA US); **B01D 53/343** (2013.01 - EA EP US); **B01D 53/38** (2013.01 - EA US); **B01D 53/75** (2013.01 - EA US); **B01D 53/76** (2013.01 - EA US); **B01D 53/78** (2013.01 - EA EP US); **C02F 3/302** (2013.01 - EA EP US); **C02F 11/04** (2013.01 - US); **C12M 43/04** (2013.01 - EA US); **B01D 2252/103** (2013.01 - EA US); **B01D 2257/90** (2013.01 - EA EP US); **B01D 2258/02** (2013.01 - EA US); **B01D 2258/05** (2013.01 - EA EP US); **C02F 11/04** (2013.01 - EA EP); **C02F 2103/18** (2013.01 - EA EP US); **C02F 2209/02** (2013.01 - EA EP US); **C02F 2303/02** (2013.01 - EA EP US); **C02F 2303/10** (2013.01 - EA EP US); **Y02E 50/30** (2013.01 - EP); **Y02W 10/20** (2015.05 - EP); **Y02W 10/30** (2015.05 - EA EP US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2018083097 A1 20180511; CN 109937083 A 20190625; EA 201990829 A1 20191129; EP 3535046 A1 20190911; EP 3535046 B1 20230802; EP 3535046 C0 20230802; IT 201600110226 A1 20180502; US 11185816 B2 20211130; US 2019291047 A1 20190926

DOCDB simple family (application)
EP 2017077909 W 20171031; CN 201780067696 A 20171031; EA 201990829 A 20171031; EP 17801614 A 20171031; IT 201600110226 A 20161102; US 201716344514 A 20171031